

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-266496

(43)Date of publication of application : 28.09.1999

(51)Int.Cl.

H04R 15/00

(21)Application number : 10-067530

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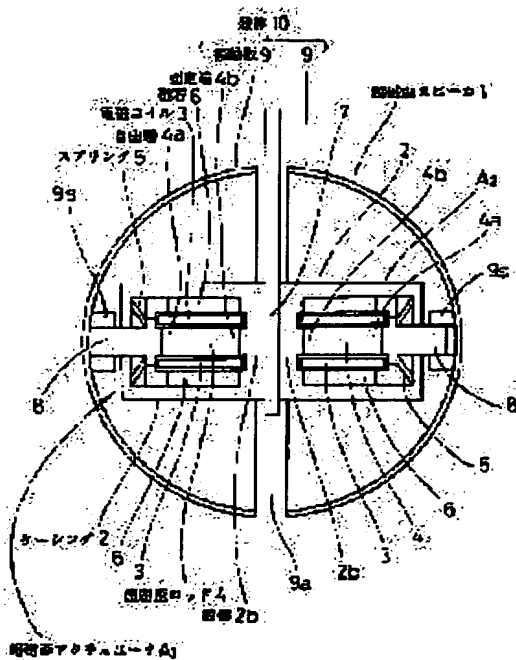
(22)Date of filing :

18.03.1998

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(54) ULTRA-MAGNETOSTRICTION SPEAKER



(57)Abstract:

PROBLEM TO BE SOLVED: To provide a speaker that produces a sound at a high sound pressure level even in the case that a casing cannot be placed in an environment such as underwater and that is used in water without housing an ultra-magnetostriction actuator in an airtight package.

SOLUTION: Two ultra-magnetostriction actuators A1, A2 acting as sound vibration generating sources are placed by opposing fixed ends so that their ultra-magnetostriction rods 4 are placed on a line. In the case of supplying a same sound signal to each electromagnetic coil 3, forces produced as

reactions at the fixed ends are repulsed as back mass and their elongated and contacted amount is delivered as it is to free ends, then a sound pressure level of the sound produced from diaphragms 9 mounted at free ends is not attenuated. Since gaps 9a are formed to a shell 10 formed by the diaphragms 9, the diaphragm 9 is not

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destroyed by a water pressure when being sunk in water and since waterproof processing is applied to the ultra-magnetostriction actuators A1, A2, no operation defect is caused.

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[Date of request for examination]

[Date of sending the examiner's decision
of rejection]

[Kind of final disposal of application other
than the examiner's decision of rejection
or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's
decision of rejection]

[Date of requesting appeal against
examiner's decision of rejection]

[Date of extinction of right]